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METHOD AND APPARATUS FOR PRODUCT COMPARISON

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5 **CROSS-REFERENCE TO RELATED APPLICATIONS**

This application claims priority from Provisional Patent Application No.
60/176,117, entitled "System And Method For Facilitating Commercial Transactions
Over A Data Network," filed January 14, 2000, and having Joshua Walsky as
inventor. This application is assigned to Trilogy Development Group, Inc., the
10 assignee of the present invention, and is hereby incorporated by reference.

BACKGROUND OF THE INVENTION

Field of the Invention

The present invention relates to communication over a data network.
Specifically, the present invention is directed to facilitating commercial transactions
15 over a wide area data network.

Description of the Related Art

Historically, product-related information, such as a description of the nature of
a product, price of the product, warranties covering a product, customer service
associated with a product, and the like, was disseminated using various types of
20 media. The media chosen was typically independent of the mode in which the actual
transaction concerning the product was to occur. Rather, the media was chosen based
upon the anticipated market for the product. For example, advertisements for mining
tools would typically be found in a trade journal, as opposed to be displayed on
television. However, the popularity of commercial transactions over wide area data
25 networks, such as the Internet, has caused companies to disseminate product-related

information through the same media through which the transactions concerning the products occur. As a result, companies are investing enormous amounts of time, money and effort to provide product-related information over the Internet.

Companies have been assisted in the endeavor to provide product-related information over wide area networks by the technology available on the Internet. The Internet typically includes a number of users employing client terminals communicating with a remote server computer to transfer information therebetween. To facilitate the transfer, the client terminals have a "web" browser that provides graphical user interface (GUI)-based communication with a "web page" obtained from a server. One popular collection of servers uses a standardized Hypertext Transfer Protocol (HTTP) to provide information and is known as the "World Wide Web." The information is typically presented as web pages written as text with standardized formatting and control symbols known as Hypertext Mark-up Language (HTML). HTML provides basic document formatting and allows a server to specify "links" to other servers and files. Use of an HTML-compliant browser involves specification of a link via a Uniform Resource Locator (URL). Upon such specification, the user's client terminal makes a TCP/IP request to the server identified in the link and receives an HTML file that is interpreted by the browser so that a electronic HTML document made up of one or more web pages may be displayed on the client's terminal.

One difficulty with commercial transactions over the Internet concerns shopping for items based on price (i.e., comparison-price shopping). Comparison-price shopping involves a user comparing prices for similar products to determine which the user desires. There are major factors endemic to the Internet that frustrate comparison-price shopping. First, the quantity of information frustrates the identification of a single product, much less multiple products having similar or analogous characteristics. A second difficulty is that the accuracy of the information on the Internet is often compromised by various conditions, such as the rapidity with which product-related information changes and the difficulty with updating large amounts of product-related information on the Internet. In addition, the accuracy of product-related information may be supplier-dependent. If a substitute supplier of a

product is used, certain characteristics of product-related information may change (e.g., price).

With respect to finding information concerning specific products, the area is replete with attempts to augment the probability that the product-related information will be perceived by a user. For example, U.S. Pat. No. 5,937,390 to Hyodo discloses a method for determining the effectiveness of advertisements accessed over the Internet using a WWW browser. When accessing an advertisement, the user receives a toll-free telephone number of a store and calls the toll-free telephone number. A toll-free call control system connects the call to a store in which the desired product is available to determine whether the user would like to buy the advertised product. At the same time, information concerning the access is recorded as log information. This log information is posted to the service provider, and the service provider analyzes the hit rate from this log information and the WWW browser access log. From this result, the on-line service provider, or advertiser, can determine the effectiveness of the given advertisement. However, a user cannot complete the transaction concerning the purchasing of the product entirely over the Internet, thereby requiring additional retail infrastructure.

U.S. Patent No. 5,918,214 to Perkowski discloses a system and method for finding product and service related information the Internet. The system includes Internet Servers that contain information pertaining to Universal Product or Service Number (e.g., UPC number) preassigned to each product and service registered in the system, with Uniform Resource Locators (URLs) that point to the location of one or more information resources on the Internet (e.g., World Wide Web (WWW) websites). A user is provided with an "Internet Product/Service Information (IPSI) Finder" feature and a "Universal Product/Service Number (UPSN) Search" feature. The system enters its "IPSI Finder Mode" when the "IPSI Finder" feature is activated enters the "UPSN Search Mode" when the "UPSN Search" feature is activated. When the system is in its IPSI Finder Mode, a predesignated information resource (e.g., advertisement, product information, etc.) pertaining to any commercial product or service registered with the system is automatically accessed from the Internet and

displayed from the Internet browser by simply entering the registered product's UPN or the registered service's USN into the Internet browser. When the system is in its "UPSN Search Mode", a predesignated information resource pertaining to any commercial product or service registered with the system is automatically accessed
5 from the Internet and displayed from the Internet browser by simply entering the registered product's trademark(s) or (service mark) and/or associated company name into the Internet browser.

U.S. Patent. No. 5,745,681 to Levine, et al., discloses an invention for maintaining a record of items selected for purchase from a group of selectable items.

10 The invention includes a browser at a client station having a request module to send a shopping page request to a server. A shopping page module in the server sends a shopping page file to the browser in response to the shopping page request. The shopping page file contains items selectable by a user using the browser. A shopping module at the browser generates an add request and sends the add request to the
15 server. This add request contains selected items from the items that were selectable in the shopping page file. A receiver at the server receives the add request from the browser, and a cart list module at the server initializes a shopping cart list. An add module at the server adds the selected items to the shopping cart list. A shopping page module at the server converts the cart list to a cart field, generates a new
20 shopping page file, embeds the cart field in the new shopping page file and sends the new shopping page file to the browser. In this way, the shopping cart field is in a shopping page file that may be managed by the browser at the client station.

While both Perkowski and Levine, et al., facilitate identification of products that a user is interested in purchasing, neither Perkowski nor Levine, et al., ensure the
25 accuracy of the product-related information provided. What is needed, therefore, is a technique for easily identifying multiple products of similar characteristics that ensures the information corresponding to the products is accurate.

SUMMARY OF THE INVENTION

In one embodiment of the present invention, a method of comparing products is disclosed. The method includes selecting a first configuration representing a first product with a first attribute, selecting a second configuration representing a second product with a second attribute, and displaying the first attribute and the second attribute. As will be noted, the first attribute is defined in the first configuration, and the second attribute is defined in the second configuration.

In one aspect of this embodiment, the first product is a first vehicle and the second product is a second vehicle. Given this, the method may further include selecting the first configuration from at least one stored configuration. Also, given this aspect, the method can further include generating the first configuration by performing actions such as selecting a make of the first vehicle, selecting a model of the first vehicle, and selecting a trim level of the first vehicle, as well as selecting an equipment level of the first vehicle.

In another aspect of this embodiment, the method can further include generating a third configuration. Such a third configuration can be comparable to the first configuration with regard to a vehicle type. Additionally, the third configuration can also be comparable to the first configuration with regard to a vehicle price.

These and other embodiments of the present invention, along with many of its advantages and features, are described in more detail below and are shown in the attached drawings. The foregoing is a summary and thus contains, by necessity, simplifications, generalizations and omissions of detail; consequently, those skilled in the art will appreciate that the summary is illustrative only and is not intended to be in any way limiting. As will also be apparent to one of skill in the art, the operations disclosed herein may be implemented in a number of ways, and such changes and modifications may be made without departing from this invention and its broader aspects. Other aspects, inventive features, and advantages of the present invention, as defined solely by the claims, will become apparent in the non-limiting detailed description set forth below.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention may be better understood, and its numerous objects, features, and advantages made apparent to those skilled in the art by referencing the accompanying drawings.

5 Fig. 1 is simplified plan view of a data network;

Fig. 2 is a block diagram of a client terminal shown above in Fig. 1;

Fig. 3 is a plan view of a first web page having a visual representation of a
hypertext link which can be employed in accessing a Virtual Garage™;

10 Fig. 4 is a plan view of a second web page having a visual representation of a
hypertext link and data entry regions which can be employed in accessing a Virtual
Garage™;

Figs. 5a-c is a plan view of a web page employed to allow users to register to
gain access to a Virtual Garage™;

15 Fig. 6 is a plan view of a web page that is uniquely associated with a user and
on which product-related information stored on a server is accessed;

Fig. 7 is a plan view of a first web page through which a user can access
product-related information that may be associated with the web page shown above in
Fig. 6;

20 Fig. 8 is a plan view of a second web page through which a user can access
product-related information that may be associated with the web page shown above in
Fig. 6;

Fig. 9 is a plan view of a third web page through which a user can access
product-related information that may be associated with the web page shown above in
Fig. 6;

Fig. 10 is a plan view of a fourth web page through which a user can access product-related information that may be associated with the web page shown above in Fig. 6;

Fig. 11 is a plan view of a fifth page through which a user can access product-related information that may be associated with the web page shown above in Fig. 6;

Fig. 12 is a plan view of a sixth web page through which a user can access product-related information that may be associated with the web page shown above in Fig. 6;

Figs. 13a-c are plan views of a seventh web page through which a user can access product-related information that may be associated with the web page shown above in Fig. 6;

Figs. 14a-c are plan views of a eighth web page through which a user can access product-related information that may be associated with the web page shown above in Fig. 6;

Figs. 15a-c are plan views of a ninth web page through which a user can access product-related information that may be associated with the web page shown above in Fig. 6;

Fig. 16a-c are a plan views of a tenth web page through which a user can access product-related information that may be associated with the web page shown above in Fig. 6;

Figs. 17a-c are plan views of an eleventh web page through which a user can access product-related information that may be associated with the web page shown above in Fig. 6;

Fig. 18a-c are plan views of a twelfth web page through which a user can access product-related information that may be associated with the web page shown above in Fig. 6;

Fig. 19 is a plan view of a thirteenth web page through which a user can access product-related information that may be associated with the web page shown above in Fig. 6;

Fig. 20 is a plan view of a web page through which a user can access product
5 comparison features that may be associated with the web page shown above in Fig. 6;

Fig. 21 is a second plan view of a web page through which a user can access product comparison features that may be associated with the web page shown above in Fig. 6;

Fig. 22a-c is a plan view of a fourteenth web page through which a user can
10 access product-related information that may be associated with the web page shown above in Fig. 6;

Fig. 23 is a plan view of a fifteenth web page through which a user can access product-related information that may be associated with the web page shown above in Fig. 6;

Fig. 24 is a plan view of a sixteenth web page through which a user can access product-related information that may be associated with the web page shown above in Fig. 6;

Fig. 25 is a plan view of a seventeenth web page through which a user can access product-related information that may be associated with the web page shown
20 above in Fig. 6;

Fig. 26 is a plan view of a eighteenth web page through which a user can access product-related information that may be associated with the web page shown above in Fig. 6; and

Fig. 27 is a flow diagram showing a method in accordance with the present
25 invention.

The use of the same reference symbols in different drawings indicates similar or identical items.

DETAILED DESCRIPTION OF THE INVENTION

The following is intended to provide a detailed description of an example of the invention and should not be taken to be limiting of the invention itself. Rather, any number of variations may fall within the scope of the invention which is defined in the claims following the description.

Introduction

Embodiments of the present invention include a method of comparing products. Typically, products are compared by a potential buyer of the products by performing some sort of feature-by-feature comparison (e.g., price, amenities, options, colors, etc.). The method described herein supports such comparisons and includes selecting a first configuration and a second configuration. The first configuration represent a first product with a first attribute. The second configuration represents a second product with a second attribute. Finally, the first and the second attributes are displayed so that the potential buyer can easily compare the two products' features. Thus, each product is represented by a configuration of that product (the product with a given set of features). As will be noted, the first attribute is defined in the first configuration, and the second attribute is defined in the second configuration.

An Example Computing and Network Environment

Fig. 1 is a block diagram of a wide area network (WAN) 5 (e.g., the Internet), which includes a number of networked servers 10 that are accessible by client terminals 12. Communication between servers 10 and client terminals 12 typically occurs over a publicly accessible network, such as a public switched telephone network (PSTN) over ASDL telephone lines or large bandwidth trunks (e.g., T1 or OC3). Client terminals 12 access servers 10 through an Internet service provider (ISP) by executing application specific software (e.g., a "browser") on a computer 14, shown in detail in Fig. 2.

Fig. 2 is a block diagram illustrating a computer such as computer 14.

Computer 14 includes one or more system buses 22, which place various components of computer 14 in data communication. For example, a microprocessor 24 is placed in data communication with both a read only memory (ROM) 26 and a random access memory (RAM) 28 via system bus 22. ROM 26 contains, among other code, a Basic Input-Output System (BIOS), which controls basic hardware operations such as the interaction with peripheral components such as disk drives 30 and 32, as well as a keyboard 34. RAM 28 is the main memory into which the operating system and application programs are loaded. A memory management chip 36 is in communication with system bus 22 to control direct memory access (DMA) operations. DMA operations include passing data between RAM 28, and hard disk drive 30 and floppy disk drive 32. Also in communication with system bus 22 are various I/O controllers: a keyboard controller 38, a mouse controller 40, a video controller 42, and an audio controller 44. Keyboard controller 38 provides a hardware interface for keyboard 36, mouse controller 40 provides the hardware interface for a mouse 46, or other point-and-click device, and video controller 40 provides a hardware interface for a display 48. A modem 50 enables data communication over WAN 5, preferably facilitating data transmission speeds of at least 28.8 Kbps. The operating system of computer 14 may be MS-DOS™, WINDOWS™ 3.x, WINDOWS™ 95, WINDOWS™ NT 4.0, OS/2™, or other known operating system. Computer 14 also supports a number of Internet access tools, including, for example, an HTTP-compliant web browser, such as Netscape Navigator™, Microsoft Explorer™ or the like.

Referring to Figs. 1 and 2, browser 54 employs, for example, a TCP/IP connection to pass a request to an HTTP server 10a running an HTTP "service" (e.g., under the WINDOWS™ operating system) or a "daemon" (e.g., under a UNIX™ operating system). The request is typically satisfied by contacting HTTP server 10a using a protocol that can be used to communicate between server 10a and one or more of client terminals 12 (e.g., HTTP). One of servers 10 then responds to the request, typically by sending a "web page" formatted as an HTML file. The browser interprets

the HTML file and displays a visual representation of the web page using local resources (e.g., fonts, colors and the like).

An Example of a System Facilitating Commercial Transactions Over a Network

Referring to Figs. 2, 3 and 4, a visual representation of a "web page" 56 is depicted as web page 56 would be presented, for example, on display 48. Web page 56 includes, inter alia, a hypertext link 58 (entitled "enter the site"). Employing mouse 46, a cursor 60 may be placed proximate to hypertext link 58, and a cursor event is effectuated (i.e., hypertext link 58 is activated). Activating hypertext link 58 results in a visual representation of a web page 61 being presented on display 48. In this manner, hypertext link 58 allows navigation to web page 61 by having the same displayed on display 48. Web page 61 includes a number of hypertext links 62 a-z, as well as a number of data entry fields 64a-d. Also included on webpage 61 is a link 66, which allows navigation to facilities that allow the propagation of information (e.g., over the Internet, via a file-transfer-protocol (FTP) or e-mail).

Hypertext links 62a, 62b, 62c, 62t, 62u, 62v, 62w, 62x and 62y are provide to inform users of certain information not germane to the present invention. For example, hypertext links 62a and 62u allow navigation to webpages that discuss how to use the website. Hypertext links 62b, 62w, 62x and 62v provide company information, such as summary of the company and its services, press releases, jobs available, and how to contact the company. Hypertext link 62c describes how privacy is maintained on the website. Hypertext link 62t allows navigation to web page 61, and hypertext link 62y allows navigation to information that discusses the terms and conditions for gaining access to the website.

Access to the present invention is gained through webpage 61 by activating a hypertext link 62n. Before activating hypertext link 62n, a user must either enter information corresponding to a preexisting account in data entry fields 64c and 64d, or register a new account. In this manner, a user may be associated with a subportion of the addresses in the address space of HTTP server 10a, and referred to herein as a Virtual Garage™. To restrict access to the aforementioned subportion of addresses, a

code that corresponds to the user is associated with the Virtual Garage™. The
aforementioned code includes a user-name and a password. To gain access to the
Virtual Garage™, the user's user-name is entered in data entry field 64c, and the
user's password is entered in data entry field 64d. As is standard with most password
5 security, the user's password is not displayed in data entry field 64d.

In the case where a user attempts to gain access to the present invention for the
first time, a hypertext link 62o allows navigation to an account registration webpage
65, shown in Figs. 5a-5c. Account registration webpage 65 includes a number of data
entry fields 65a-s, in which the user's personal information can be entered. Also
10 included on account registration webpage 65 are data fields 66a-b and 67a-j. Data
entry fields 66a-b indicate the level of restriction on dissemination of the information
provided in data fields 65a-s. Information entered in data fields 67a-i indicates how
the user came to obtain knowledge of the existence of account registration webpage
65.

15 A number of hypertext links can also be included on account registration
webpage 65. For example, hypertext links 62a, 62b, 62c, 62t, 62u, 62v, 62w, 62x and
62y are the same as shown on webpage 62, and are as discussed above. Hypertext
links 70a-c allow navigation to additional websites that may be in data
communication with databases having information concerning products that are the
20 subject of commercial transactions over the data network. For example, were
automobiles to be sold, hypertext link 70a includes information concerning various
models of automobiles; hypertext link 70b includes information concerning custom
ordering an automobile to have desired features; and hypertext link 70c includes
information concerning financing of an automobile to be purchased. Hypertext link
25 70d, on the other hand, allows navigation to a webpage having information
concerning automobiles already selected by the user as being suitable for purchase,
which is discussed more fully below.

Upon acceptance of the registration data entered into data entry fields 65a-g,
Virtual Garage™ on server 10a is accessed by activating hypertext link 62n.

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Activation of hypertext link 62n causes navigation to a webpage 75, shown in Fig. 6. Web page 75 includes information concerning products that a user is interested in purchasing. To that end, web page 75 facilitates comparison price shopping by allowing a user to store product-related information concerning multiple products and examine that information. Information concerning various products (in this example, automobiles) can be obtained by activating either of hypertext links 70a or 70b. Activating hypertext link 70a navigates to a web page 80, shown in Fig. 7, which includes, inter alia, a number of hypertext links that enable access to a database of information related to automobiles. For example, hypertext links 80a and 80d allow access to a database concerning information organized by the make and model of the available automobiles. Hypertext links 80c and 80f allow access to the same database, but facilitate searching based upon the features associated with automobiles in the database. Hypertext links 80b and 80e facilitate comparison of automobiles associated with the aforementioned database with other automobiles associated therewith or with information stored by the user in the user's Virtual Garage™.

Referring to Figs. 7, 8 and 9, the activation of hypertext links 80a or 80d allows navigation to a webpage 82. Webpage 82 includes a matrix 82a of hypertext links having titles associated with various automobile manufactures. In addition, a hypertext link 82b is present on webpage 82 that allows navigation to webpage 80. Activating the hypertext links in matrix 82a navigates to webpages having a listing of models of cars fabricated by the manufacturer associated with the hypertext link thus activated. For example, activating the hypertext link entitled "Ford" allows navigation to a webpage 84, which includes a brief description of different models of automobiles sold or manufactured under the "Ford" trademark. In addition, webpage 84 includes hypertext links 84a-v and 82b. Hypertext link 84a allows navigation to webpage 82 to allow a user to view models of automobiles associated with a different manufacturer.

Referring to Figs. 9, 10, 11 and 12, hypertext links 84b-v allow a user to obtain more specific information concerning particular automobiles sold/fabricated by the given manufacturer. For example, hypertext links 84b and 84c allow navigation to

a webpage 85 that recites more detailed information concerning the Taurus model of automobile in text region 85a entitled "overview." Webpage 85 also includes various hypertext links that facilitate obtaining additional information concerning the Taurus model of automobile (shown as hypertext links 85b and 85c).

5 For example, hypertext link 85b allows navigation to a webpage 86. Webpage 86 is similar to webpage 85, excepting recitations 86a concerning the performance characteristics of the Taurus model and the presence of hypertext link 86a that allows navigation to webpage 85. Hypertext link 85c allows navigation to a webpage 87,
10 which is similar to webpage 85, excepting recitations 86a concerning the features available on the Taurus model. Also, unlike webpages 85 and 86, webpage 87 includes both hypertext links 85a and 86b that allow navigation to webpages 85 and 86, respectively.

Additionally, webpage 85 includes hypertext link 84a that allows a user to navigate to webpage 82 to choose information concerning automobiles associated
15 with a different manufacturer. A hypertext link 85d allows a user to navigate to webpage 84 to obtain information related to a different model offered by the same manufacturer. Activating hypertext link 84d allows a user to choose different groups of features for the present model of automobile that are provided by the manufacturer, referred to as option packages. In this manner, a user is able to "build" a model of an
20 automobile having the desired features.

Referring to Figs. 7, 13a-c and 14a-c, from webpage 80, a user may search for a particular automobile based upon the features desired. To that end, hypertext links 80c and 80f allow navigation to a webpage 90. Webpage 90 includes a number of hypertext links 90a-f that allow navigation to different webpages containing
25 information concerning various features available on a list of automobiles recited in a column 90g. Also included on webpage 90 are hypertext links 70a-d, as well as a hypertext link 66. Webpage also includes a data entry region 90h having a number of data entry fields 92a-h. Each of the data entry fields 92a-h corresponds to a range of values. One or more of data entry fields 92a-h can have data entered therein to

indicate the price of a vehicle in which a user is interested. Hypertext link 90b allows navigation to a webpage 93. Webpage 93 is similar to webpage 90, excepting a data entry region 93a which includes a number of data entry fields 93b-n that correspond to characteristics of an automobile, such as different body styles, drive trains and engine locations.

Referring to Figs. 13a and 15a-c, hypertext link 90c allows navigation to a web page 94. Webpage 94 is similar to webpage 90, excepting a data entry region 94a which includes a number of data entry fields 94b-m that correspond to the characteristics of the engine associated with the automobile being configured. The aforementioned characteristics include the horsepower and the number of cylinders.

Referring to Figs. 13a and 16a-c, hypertext link 90d allows navigation to a web page 95. Webpage 95 is similar to webpage 90, excepting data entry region 95a that includes a number of data entry fields 95b-i that correspond to fuel economy of the automobile being configured. As a result, a user may select an automobile based upon a desired fuel economy that the automobile must achieve.

Referring to Figs. 13a and 17a-c, hypertext link 90e allows navigation to web page 96. Webpage 96 is similar to webpage 90, excepting data entry region 96a which includes a number of data entry fields 94b-n that correspond to the characteristics an automobile's interior. The aforementioned characteristics may include the type of seats included with the automobile (e.g., bench or bucket seats), as well as the upholstery thereof. Additionally, the type of sound system may be chosen from data entry regions 96i-n.

Referring to Figs. 13a and 18a-c, hypertext link 90f allows navigation to a web page 97. Webpage 97 is similar to webpage 90, excepting a data entry region 97a, which includes a number of data entry fields 97b-h that correspond to the safety characteristics of the automobile being configured. This allows selecting automobiles based upon the available safety restraint systems associated therewith (e.g., driver-side airbag, integrated child safety seat, roadside assistance, and the like).

Referring to Figs. 7 and 19, from webpage 80 a user may also select automobiles based upon side-by-side comparisons. To that end, hypertext links 80b and 80e allow navigation to a webpage 100. Webpage 100 has a number of floating frames 100a-f and data entry regions 100g-p. A subset of floating frames 100a-f (floating frames 100a-c) and a subset of data entry regions 100g-p (data entry regions 100g-k) are associated with product information concerning a first automobile. The remaining ones of floating frames 100a-f (floating frames 100d-f) and the remaining ones of data entry regions 100g-p (data entry regions 100l-p) are associated with product information concerning a second automobile.

To compare product-related information of two automobiles, one of data entry regions 100g and 100h is selected. For example, to compare information stored in the user's Virtual Garage™, data entry region 100h is activated. For the present discussion, it is assumed that data entry region 100g is activated. Floating frame 100a is entitled "select make" and includes a virtual button 101a. Activating the virtual button expands floating frame 100a. This enables a user to scroll through a list of automobile manufacturers and select a particular manufacture, for the first automobile, by highlighting the same and effectuating a cursor event. The remaining floating frames (floating frames 101b and 101c), entitled select model and select trim, respectively, operate in a manner similar to floating frame 101a. This enables a user to select the first automobile based upon the manufacturer, model and trim. The second automobile is selected in a similar fashion using floating frames 100d-f and data entry regions 100l-p.

Referring to Figs. 7 and 19, if the user desires to compare product-related information concerning the second automobile with product-related information stored in the Virtual Garage™, data entry region 100h is made the subject of a cursor event, navigating to a web page 102. Webpage 102 is identical to webpage 100, excepting for the absence of floating frames 100a-c. In place of floating frames 100a-c, a floating frame 100q is present and is entitled "select garage car". Activating virtual button 101b that is associated with floating frame 100q expands floating frame

100q to enable a user to scroll through a list of automobiles for which information is stored in the user's Virtual Garage™.

Referring to Figs. 20, 21 and 22a-c, after selecting the make, model and trim for the two automobiles to be compared on webpage 102, the user navigates to a webpage 103. Webpage 103 is identical to webpage 102 except for the inclusion of a hypertext link 100r entitled "compare". Hypertext link 100r allows navigation to a webpage 104. In addition to including product-related information, webpage 104 includes six floating frames 104a-f that correspond to floating frames 100a-f, as well as six data entry regions 104i-n that correspond to data entry regions 100i-k and 100n-p. Two additional floating frames are included on webpage 104 (floating frames 104g and 104h), entitled "auto-generate a comparable car", as well as two hypertext links (hypertext links 104o and 104p). The product-related information is arranged in two columns (columns 105a and 105b), with information concerning the first automobile recited in column 105a and that concerning the second automobile recited in column 105b. The information is preferably arranged so that analogous, or common, characteristics of the two automobiles are recited in a common row. For example, information concerning the transmission of the first automobile in column 105a should be directly across from the transmission information concerning the second automobile recited in column 105b. In this manner, a user may quickly and easily compare the characteristics of the two (or more) automobiles.

Should the user desire to vary the product-related information being compared, the user can change the information in either of columns 105a and 105b. To that end, the user can use floating frames 104a-104f to select a different manufacturer and/or model, as well a trim, as discussed above with respect to webpage 100. Alternatively, hypertext links 104o and/or 104p can be activated to obtain product-related information stored in the Virtual Garage™. Finally, the user can employ floating frame 104g to cause server 10a (which hosts software implementing the Virtual Garage™) to automatically generate information concerning an automobile that is comparable to that for which information is displayed in column 105a. To effect such generation, a user activates a virtual button 105c to select a criteria by which to seek a

comparable automobile. The criteria can include, for example, price and/or features. In a similar fashion, the product-related information in column 105b can also be varied through the use of floating frame 104h.

Referring to Figs. 22a-c, 23 and 24, hypertext links 105f and 105g can be activated in order to save product-related information in column 105a and column 105b, respectively. For example, hypertext link 105f allows navigation to a webpage 106, which includes a hypertext link 106a. Activation of hypertext link 106a saves the product-related information concerning the first automobile, recited in column 105a, in the user's Virtual Garage™. From webpage 106, a user may also vary the product-related information concerning the first automobile before saving that vehicle to the user's Virtual Garage™. To that end, a number of data entry regions 106b-g corresponding to differing exterior and interior colors are provided. Additionally, by activating a hypertext link 106h, information concerning the first automobile can be varied by selecting differing option packages associated with the model selected for the first automobile. Hypertext link 106h allows navigation to a webpage 108, which includes data entry regions 108a-i. Data entry regions 108a-i allow selection between different options provided by the manufacturer. From webpage 108, information concerning the first automobile can be saved to the user's Virtual Garage™ by activation of a hypertext link 108j. Finally, activation of a hypertext link 108k allows a user to obtain an updated price for the vehicle.

Referring to Figs. 6, 7, 24, 25 and 26, a user may obtain product-related information concerning an automobile by activating hypertext link 70b, and in so doing navigates to a webpage 110. Webpage 110 includes floating frames 110a, 110b and 110c that serve functions identical to floating frames 100a, 100b and 100c (shown on webpage 100). Also included on webpage 110 is a hypertext link 110d that allows navigation to webpage 80 to facilitate researching information concerning product-related information, as discussed above. Once the desired information is selected in floating frames 110a, 110b and 110c, the user navigates to a webpage 111. Webpage 111 is identical to webpage 110 except that additional hypertext links (hypertext links 111a, 111b, 111c and 111d) are provided. In addition, summary product-related

information 111e (corresponding to the make, model and trim selected) is also displayed on webpage 111. Hypertext link 111a allows navigation to webpage 84, providing a list of models associated with the manufacturer selected in floating frame 110a. Hypertext link 111b allows navigation to a webpage 112, which provides a list of option packages provided by the manufacturer selected in floating frame 110a. Hypertext link 110c allows navigation to webpage 85, which includes the information discussed above, and hypertext link 111d allows navigation to webpage 106. As mentioned above, webpage 106 includes data entry regions 106b-g, which correspond to differing exterior and interior colors that are provided by the manufacturers, as well as a hypertext link 106h that allows navigation to webpage 108 to facilitate selection of different options provided by the manufacturer selected in floating frame 110a. In this manner, a user may save the product-related information thus generated to the user's Virtual Garage™.

To that end, referring to Figs. 1 and 27, a user views product-related information displayed in a browser window (step 202). The user then associates a group of the addresses of the address space of server 10a with a code (step 204). The product-related information includes the product's price. The user then agrees to the price of the product associated with the product-related information by storing the same in the aforementioned group of addresses (step 206). The aforementioned price is maintained in the absence of a predefined system event, such as the expiration of a predetermined time period (step 208). For example, were the product-related information stored in the aforementioned group of addresses for longer than seven days without the user agreeing to purchase the product associated therewith, the price associated therewith might then be modified at server 10a. Additionally, changes in any of the information associated with the product-related information stored in the aforementioned group of addresses prior to the user agreeing to purchase the product associated therewith can also result in modification of the price stored at server 10a. This is demonstrated by assuming product-related information concerning an automobile is stored at the aforementioned subgroup of addresses and then the trim associated with the automobile changes before the user agrees to purchase the

automobile. In this scenario, the price of the automobile can be changed at server 10a, resulting in the user having to pay the new price. Otherwise, the price agreed to by the user is the price of the product associated with the product-related information at the time the user agreed to the purchase (step 210).

5 Although the foregoing method has been described with step 204 occurring after step 202, step 204 could occur at any point during the method so long as step 204 precedes step 206. In addition, the embodiment discussed above illustrates a use of the present invention for facilitating commercial transactions over a data network involving automobiles. It should be understood, however, that the present invention
10 can also be applied to commercial transactions involving any product, such as furniture, cleaning products, maid services, travel services and the like.

 Thus, while particular embodiments of the present invention have been shown and described, it will be obvious to those skilled in the art that, based upon the teachings herein, changes and modifications may be made without departing from this
15 invention and its broader aspects and, therefore, the appended claims are to encompass within their scope all such changes and modifications as are within the true spirit and scope of this invention. Furthermore, it is to be understood that the invention is solely defined by the appended claims.